

# Converting Colors

XYZ(37.7199, 33.3087, 5.0616)

Have a look what the booklet for  
XYZ(37.7199, 33.3087, 5.0616)  
contains.

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# Color

**XYZ(37.8145, 33.4021,  
5.0703)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D88C13
RGB	216, 140, 19
RGB Percent	85%, 55%, 7%
CMY	0.1529, 0.4510, 0.9255
CMYK	0.00, 0.35, 0.91, 0.15
HSL	37°, 84%, 46%
HSV	37°, 91%, 85%
XYZ	37.8145, 33.4021, 5.0703
YIQ	148.9300, 84.1370, -21.5190

# Conversions

## Conversions Part 2

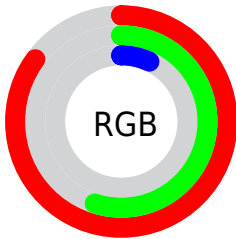
Format	Color
R <sub>Y</sub> B	143, 216, 19
Decimal	14191635
CIE Lab	64.49, 20.82, 66.81
CIE LCh	64, 69.983, 72.690
Yxy	33.4021, 0.4957, 0.4378
Android (android.graphics.Color)	4292381715 (0xFFD88C13)
YUV	148.9300, -64.0555, 58.8204
Hunter-Lab	57.7945, 15.6506, 35.2547

# Details

The XYZ color **37.8145, 33.4021, 5.0703** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark washed orange. A complement of this color would be **16.7555, 13.2808, 66.6455**, and the grayscale version is **28.7750, 30.2735, 32.9678**.

A 20% lighter version of the original color is **61.9798, 60.4228, 15.9855**, and **17.1737, 14.2809, 1.8513** is the 20% darker color. If you saturate the color by 10%, you get **36.6616, 31.2847, 4.1063**, and if you desaturate by 10%, it is **39.3552, 36.0424, 6.9447**.

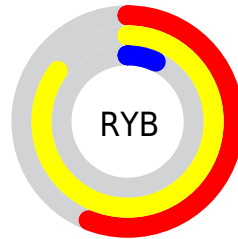
# Distribution



Red (85%)

Green (55%)

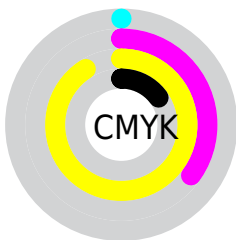
Blue (7%)



Red (56%)

Yellow (85%)

Blue (7%)

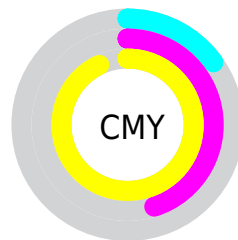


Cyan (0%)

Magenta (35%)

Yellow (91%)

Black (15%)



Cyan (15%)

Magenta (45%)


Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.8145, 33.4021, 5.0703 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 37.8145, 33.4021, 5.0703 by changing the saturation by 10% instead.





 37.8145, 33.4021,  
5.0703


 37.8145, 33.4021,  
5.0703

328.1182,  
317.4577, 159.4677

 26.0153, 22.4347,  
2.2291

 71.1295, 65.0028,  
16.4113

 16.9678, 14.1766,  
0.6911


 93.3759, 86.4048,  
25.7483


 10.3067, 8.2436,  
0.0000


 119.8356,  
112.0539, 38.0875

 5.6666, 4.2512,  
0.0000

 150.8737,  
142.3343, 53.8477

 2.6822, 1.8151,  
0.0000

 186.8556,  
177.6305, 73.4472

 0.9880, 0.4965,  
0.0000

 228.1468,

 0.0000, 0.0000,

218.3269, 97.3047

0.0000

275.1125,  
264.8078, 125.8387

37.8145, 33.4021,  
5.0703

37.8145, 33.4021,  
5.0703

36.6616, 31.2847,  
4.1063

39.3552, 36.0424,  
6.9447

41.1953, 38.9517,  
9.9345

43.3671, 42.1475,  
14.1975

45.8976, 45.6434,  
19.8655

48.8101, 49.4517,  
27.0535

■ 52.1258, 53.5837,  
35.8647

■ 55.8644, 58.0499,  
46.3931

■ 60.0437, 62.8602,  
58.7254

■ 64.6807, 68.0239,  
72.9424

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



48.0676, 33.4021, 10.3639



37.8145, 33.4021, 5.0703



27.7114, 33.4021, 4.7678

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



37.8145, 33.4021, 5.0703



16.4506, 33.4021, 49.8453



46.6379, 33.4021, 93.6602

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



37.8145, 33.4021, 5.0703



16.7555, 13.2808, 66.6455

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



36.1581, 33.4021, 120.7930



37.8145, 33.4021, 5.0703



19.6158, 33.4021, 87.8895

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



37.8145, 33.4021, 5.0703



16.7106, 33.4021, 22.3307



26.3672, 33.4021, 118.2552



53.8502, 33.4021, 55.3214



# Rectangle

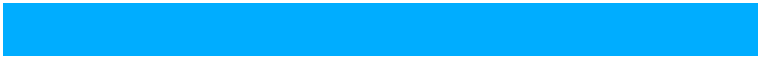
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



37.8145, 33.4021, 5.0703



22.4603, 33.4021, 6.9344



26.3672, 33.4021, 118.2552



43.2962, 33.4021, 105.1153

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



37.8152, 33.4038, 5.0709



77.9835, 80.5408, 57.9738



30.7470, 15.9429, 12.9635



16.3029, 16.7693, 11.3302



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



37.8152, 33.4038, 5.0709



53.2344, 45.2488, 5.9281



47.5163, 60.9344, 9.8735



13.0519, 13.6780, 13.1129



21.8076, 18.7324, 2.4663



1.3944, 1.2881, 0.1751



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



16.7555, 13.2808, 66.6455



22.4524, 16.0249, 96.5175



13.4532, 5.8494, 65.3852



12.1315, 12.7864, 15.7661



9.2792, 6.8203, 39.2805



0.6387, 0.5694, 2.3955



# Previews

## White Background



This preview shows how the XYZ color 37.8145, 33.4021, 5.0703 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.8145, 33.4021, 5.0703 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.8145, 33.4021, 5.0703**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.8145, 33.4021, 5.0703.



This preview shows how white text looks on a background with the XYZ color 37.8145, 33.4021,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

37.8145, 33.4021, 5.0703

### Protanopia

30.3533, 33.5270, 5.7357

### Deuteranopia

34.0361, 33.5007, 4.6724



## Tritanopia

42.8405, 33.3883, 28.9976

# Trichromacy



## Original Color

37.8145, 33.4021, 5.0703

## Protanomaly

32.6973, 33.2675, 5.4570

## Deuteranomaly

35.4941, 33.5522, 4.8065

## Tritanomaly

40.1516, 33.1104, 15.3410

# Monochromacy



## Original Color

37.8145, 33.4021, 5.0703

## Achromatopsia

28.5667, 30.0544, 32.7292

## Achromatomaly

29.9107, 30.4013, 16.8619

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.8145, 33.4021, 5.0703 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(216, 140, 19)` looks like.

```
.text, #text, p{  
    color:rgb(216, 140, 19)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(216, 140, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 140, 19) }
```

## Border

The CSS property to change the border of an element to XYZ 37.8145, 33.4021, 5.0703 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(216, 140, 19) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(216, 140, 19) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(216, 140, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(216, 140, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(216, 140, 19);  
box-shadow:4px 4px 4px 4px rgb(216, 140,  
19) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.8145, 33.4021, 5.0703 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 140, 19) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(216,  
140, 19) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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